

APPENDIX Q

PRELIMINARY PLANNING COST ESTIMATES

MILITARY ROAD / MISSOURI AVENUE TRANSPORTATION STUDY

PRELIMINARY PLANNING COST ESTIMATES

SHORT TERM IMPROVEMENTS

Location	Description	Unit	Quantity	Unit Price (A)	Total
5.3.1 - Nebraska Avenue to 27th Street	- Remove existing pavement markings	LS	1	\$20,000	\$20,000
	- Signs	SF	80	\$80	\$6,400
	- Re-stripe segment to three 12' lanes	LF	10600	\$0.70	\$7,420
	Location Sub Total:				\$33,820
5.3.2 - 14th Street to Georgia Avenue	- Reallocate signal timing	LS	1	\$5,000	\$5,000
	- Add specialty markings for Missouri Avenue through traffic	LF	1200	\$0.70	\$840
	- Install "Left Lane Must Turn Left" sign (3)	SF	18.75	\$80	\$1,500
	- Install "No Parking Here To Corner" sign	SF	1.5	\$80	\$120
	- Install "No Parking" signs (2)	SF	3	\$80	\$240
	- Add lane use signs	SF	60	\$80	\$4,800
Location Sub Total:					\$12,500
5.3.3 - 9th Street to 3rd Street	- Remove existing pavement markings	LS	1	\$20,000	\$20,000
	- Signs	SF	80	\$80	\$6,400
	- Re-stripe segment to three 12' lanes	LF	12300	\$0.70	\$8,610
	Location Sub Total:				\$35,010
5.3.4 - New Hampshire Avenue to Blair Road	- Re-stripe pedestrian crossings (2 Crossings)	LF	298	\$3	\$894
	- Re-stripe all approaches	LF	600	\$0.70	\$420
	- Add lane use signs	SF	7.5	\$80	\$600
	Location Sub Total:				\$1,914
5.4.1 - Military Road/Western Avenue	- Reallocate signal timing	LS	1	\$2,000	\$2,000
	- Add lane use signs	SF	12.5	\$80	\$1,000
	Location Sub Total:				\$3,000
5.4.2 - Military Road/43rd Street	- Add parking stall striping	LF	108	\$0.70	\$76
	- Relocate "No Parking Here To Corner" sign.	SF	1.5	\$80	\$120
	Location Sub Total:				\$196
5.4.3 - Military Road/41st Street/Reno Road	- Reallocate signal timing	LS	1	\$2,000	\$2,000
	- Install red light camera	LS	1	\$20,000	\$20,000
	Location Sub Total:				\$22,000
5.4.4 - Military Road/39th Street	- Relocate eastbound speed limit sign	SF	6.25	\$80	\$500
	- Install new westbound speed limit sign	SF	5	\$80	\$400
	- Re-stripe pedestrian crossings (4 Crossings)	LF	560	\$3	\$1,680
	- Re-stripe all approaches	LF	800	\$0.70	\$560
	- Add parking stall striping	LF	108	\$0.70	\$76
	Location Sub Total:				\$3,216

MILITARY ROAD / MISSOURI AVENUE TRANSPORTATION STUDY

PRELIMINARY PLANNING COST ESTIMATES

SHORT TERM IMPROVEMENTS

Location	Description	Unit	Quantity	Unit Price (A)	Total
5.4.5 - Military Road/Connecticut Avenue	- Re-stripe eastbound island taper for the left turn lane	LF	500	\$0.70	\$350
	- Add lane use sign for westbound traffic	SF	7.5	\$80	\$600
	- Reallocate signal timing	LS	1	\$2,000	\$2,000
	Location Sub Total:				\$2,950
5.4.6 - Military Road/Nevada Avenue	- Re-stripe pedestrian crossings (4 Crossings)	LF	772	\$3	\$2,316
	- Add parking stall striping	LF	1000	\$0.70	\$700
	- Relocate speed limit signs (1)	SF	5	\$80	\$400
	- Install "No Parking Here To Corner" signs (2)	SF	3	\$80	\$240
Location Sub Total:					\$3,656
5.4.7 - Military Road/Broad Branch Rd/Nebraska Ave	- Re-stripe pedestrian crossings (4 Crossings)	LF	1006	\$3	\$3,018
	- Re-stripe all approaches	LF	2000	\$0.70	\$1,400
	- Relocate "No Left Turn At Military" sign on the northbound approach	SF	5	\$80	\$400
	- Install "Left Lane Must Turn Left" sign on westbound approach	SF	5	\$80	\$400
	- Add westbound lane use sign	SF	7.5	\$80	\$600
	- Reallocate signal timing	LS	1	\$2,000	\$2,000
Location Sub Total:					\$7,818
5.4.8 - Military Road/32nd Street	- Re-stripe pedestrian crossings (4 Crossings)	LF	722	\$3	\$2,166
	- Re-stripe all approaches	LF	1600	\$0.70	\$1,120
	- Relocate speed limit signs (2)	SF	10	\$80	\$800
Location Sub Total:					\$4,086
5.4.9 - Military Road/31st Street	- Re-stripe pedestrian crossings (4 Crossings)	LF	682	\$3	\$2,046
	- Re-stripe all approaches	LF	1600	\$0.70	\$1,120
	- Install "No Parking Here To Corner" sign of 31st Street	SF	1.5	\$80	\$120
	- Install "Signal Ahead" sign for eastbound traffic	SF	6.25	\$80	\$500
Location Sub Total:					\$3,786
5.4.10 - Military Road/30th Street	- Re-stripe pedestrian crossings (3 Crossings)	LF	532	\$3	\$1,596
	- Re-stripe all approaches	LF	1400	\$0.70	\$980
Location Sub Total:					\$2,576
5.4.11 - Military Road/27th Street	- Re-stripe pedestrian crossings (4 Crossings)	LF	1002	\$3	\$3,006
	- Re-stripe all approaches	LF	2000	\$0.70	\$1,400
	- Add lane use signs	SF	7.5	\$80	\$600
	- Install "Signal Ahead" signs (2)	SF	12.5	\$80	\$1,000
	- Install "No Parking" signs (2)	SF	3	\$80	\$240
	- Adjust signal heads	LS	1	\$3,000	\$3,000
Location Sub Total:					\$9,246
5.4.12 - Military Road/Oregon Avenue/Glover Drive	- Reallocate signal timing	LS	1	\$2,000	\$2,000
	- Install "Reduce Speed Ahead" signs (2)	SF	12.5	\$80	\$1,000

MILITARY ROAD / MISSOURI AVENUE TRANSPORTATION STUDY

PRELIMINARY PLANNING COST ESTIMATES

SHORT TERM IMPROVEMENTS

Location	Description	Unit	Unit		Total
			Quantity	Price (A)	
Location Sub Total:					\$3,000
5.4.13 - Military Road/16th Street	- Install "Yield" sign	SF	3.2	\$80	\$256
Location Sub Total:					\$256
5.4.14 - Missouri Avenue/14th Street	- Re-stripe all approaches	LF	2400	\$0.70	\$1,680
	- Install "Left Lane Must Turn Left" sign (1)	SF	6.25	\$80	\$500
	- Install "No Parking Here To Corner" sign	SF	1.5	\$80	\$120
	- Install "No Parking" signs (2)	SF	3	\$80	\$240
	- Add parking stall striping	LF	78	\$0.70	\$55
	- Add lane use signs (2)	SF	15	\$80	\$1,200
	- Reallocate signal timing	LS	1	\$2,000	\$2,000
Location Sub Total:					\$5,795
5.4.15 - Missouri Avenue/13th Street	- Re-stripe pedestrian crossings (4 Crossings)	LF	990	\$3	\$2,970
	- Re-stripe all approaches	LF	2600	\$0.70	\$1,820
	- Install "Left Lane Must Turn Left" sign (2)	SF	12.5	\$80	\$1,000
	- Add lane use signs (2)	SF	15	\$80	\$1,200
Location Sub Total:					\$6,990
5.4.16 - Missouri Avenue/Colorado Avenue	- None				\$0
Location Sub Total:					\$0
5.4.17 - Missouri Avenue/Georgia Avenue	- Reallocate signal timing	LS	1	\$2,000	\$2,000
	- Add specialty markings for Missouri Avenue through traffic	LF	1200	\$0.70	\$840
Location Sub Total:					\$2,840
5.4.18 - Missouri Avenue/9th Street	- Re-stripe all approaches	LF	1600	\$0.70	\$1,120
	- Add parking stall striping	LF	200	\$0.70	
	- Install "No Parking Here To Corner" signs of 9th Street (2)	SF	3	\$80	\$240
Location Sub Total:					\$1,360
5.4.19 - Missouri Avenue/8th Street	- Re-stripe pedestrian crossings (4 Crossings)	LF	720	\$3	\$2,160
	- Re-stripe all approaches	LF	1600	\$0.70	\$1,120
Location Sub Total:					\$3,280
5.4.20 - Missouri Avenue/5th Street	- Re-stripe pedestrian crossings (4 Crossings)	LF	792	\$3	\$2,376
	- Re-stripe all approaches	LF	1800	\$0.70	\$735
	- Add lane use signs (2)	SF	15	\$80	\$1,200
Location Sub Total:					\$4,311
5.4.21 - Missouri Avenue/3rd Street	- Re-stripe pedestrian crossings (4 Crossings)	LF	910	\$3	\$2,730
Location Sub Total:					\$2,730

MILITARY ROAD / MISSOURI AVENUE TRANSPORTATION STUDY

PRELIMINARY PLANNING COST ESTIMATES

SHORT TERM IMPROVEMENTS

Location	Description	Unit	Quantity	Unit	Total
				Price (A)	
5.4.22 - Missouri Avenue/Kansas Avenue	- Re-stripe pedestrian crossings (5 Crossings)	LF	1050	\$3	\$3,150
	- Re-stripe all approaches	LF	1600	\$0.70	\$1,120
	Location Sub Total:				\$4,270
5.4.23 - Missouri Avenue/2nd Street	- None				\$0
Location Sub Total:					\$0
5.4.24 - Missouri Avenue/New Hampshire Avenue	- Re-stripe pedestrian crossings (4 Crossings)	LF	792	\$3	\$2,376
	- Re-stripe all approaches	LF	2400	\$0.70	\$1,680
	- Install "No Parking" signs (2)	EA	3	\$80	\$240
	Location Sub Total:				\$4,296
5.4.25 - Missouri Avenue/North Capitol Street	- Re-stripe pedestrian crossings (4 Crossings)	LF	1012	\$3	\$3,036
	- Re-stripe all approaches	LF	2800	\$0.70	\$1,960
	- Reallocate signal timing	LS	1	\$2,000	\$2,000
	Location Sub Total:				\$6,996
5.4.26 - Missouri Avenue/Riggs Road/Blair Road	- Re-stripe pedestrian crossings (4 Crossings)	LF	632	\$3	\$1,896
	- Re-stripe all approaches	LF	1800	\$0.70	\$1,260
	- Reallocate signal timing	LS	1	\$2,000	\$2,000
	Location Sub Total:				\$5,156

Notes:

A) Unit prices developed based on information provided by the District of Columbia Department of Public Works and other recent metro-area construction pricing sources

Sketch-plan estimates. Actual improvement cost estimates to be calculated upon design completion of each improvement. All costs exclusive of Right-of-Way acquisition costs

MILITARY ROAD / MISSOURI AVENUE TRANSPORTATION STUDY

PRELIMINARY PLANNING COST ESTIMATES

LONG TERM IMPROVEMENTS

Location	Description	Unit	Quantity	Unit Price (A)	Total
5.3.1 - Nebraska Avenue to 27th Street	- Included in individual intersections below				\$0
Location Sub Total:					\$0
5.3.2 - 14th Street to Georgia Avenue	- Reconfigure Missouri and Georgia Avenue intersection geometry	LS	1	400000	\$400,000
	- Construct raised median through Colorado Avenue	SF	400	\$80	\$32,000
	- Construct raised median between 14th and 13th Street	LF	950	\$300	\$285,000
	- Widen for left turn storage lane - 13th Street to Colorado	LF	280	\$500	\$140,000
Location Sub Total:					\$857,000
5.3.3 - 9th Street to 3rd Street	- Included in individual intersections below				\$0
Location Sub Total:					\$0
5.3.4 - New Hampshire Avenue to Blair Road	- Repave roadway segment	SY	5000	\$20	\$100,000
	- Reconstruct wheel chair ramps to ADA standards	EA	4	\$5,000	\$20,000
	- Install internally illuminated signs (2)	EA	2	\$2,000.00	\$4,000
	- Install fully-actuated Signal Systems	LS	1	\$300,000	\$300,000
	- Interconnect signal systems	LS	1	\$50,000	\$50,000
Location Sub Total:					\$474,000
5.4.1 - Military Road/Western Avenue	- Reconstruct Islands and Ramps	SY	300	\$42	\$12,600
Location Sub Total:					\$12,600
5.4.2 - Military Road/43rd Street	- Reconstruct wheel chair ramps to ADA standards	EA	3	\$5,000	\$15,000
Location Sub Total:					\$15,000
5.4.3 - Military Road/41st Street/Reno Road	- Widen for Eastbound Right Turn Lane	LF	200	\$100	\$20,000
	- Install side street vehicular detection	EA	2	\$12,500	\$25,000
	- Upgrade to a fully-actuated Signal System	LS	1	\$25,000	\$25,000
Location Sub Total:					\$20,000
5.4.4 - Military Road/39th Street	- Install pedestrian actuation equipment	LS	1	\$8,000	\$8,000
	- Install equipment to modify signal to be semi-actuated	LS	2	\$25,000	\$50,000
Location Sub Total:					\$58,000
5.4.5 - Military Road/Connecticut Avenue	- Install a fully-actuated Signal System	LS	1	\$100,000	\$100,000
	- Reconstruct southeast quadrant curb line	LF	75	\$80	\$6,000
Location Sub Total:					\$106,000
5.4.6 - Military Road/Nevada Avenue	- Reconstruct wheel chair ramps to ADA standards	EA	2	\$5,000	\$10,000
Location Sub Total:					\$10,000
5.4.7 - Military Rd/Broad Branch Rd/Nebraska Ave	- Reconstruct wheel chair ramps to ADA standards	EA	5	\$5,000	\$25,000
	- Reconstruct southeast quadrant curb line	LF	75	\$80	\$6,000

MILITARY ROAD / MISSOURI AVENUE TRANSPORTATION STUDY

PRELIMINARY PLANNING COST ESTIMATES

LONG TERM IMPROVEMENTS

Location	Description	Unit	Quantity	Unit Price (A)	Total
	- Repave roadway segment	SY	2000	\$20	\$40,000
		Location Sub Total:			\$25,000
5.4.8 - Military Road/32nd Street	- Reconstruct wheel chair ramps to ADA standards	EA	2	\$5,000	\$10,000
	- Install pedestrian actuation equipment	LS	1	\$8,000	\$8,000
	- Install equipment to modify signal to be semi-actuated	EA	2	\$25,000	\$50,000
		Location Sub Total:			\$68,000
5.4.9 - Military Road/31st Street	- Reconstruct wheel chair ramps to ADA standards	EA	3	\$5,000	\$15,000
	- Install pedestrian actuation equipment	LS	1	\$8,000	\$8,000
	- Install equipment to modify signal to be semi-actuated	EA	2	\$80	\$160
	- Construct new Metro bus turn out lane	LF	200	\$300	\$60,000
		Location Sub Total:			\$83,160
5.4.10 - Military Road/30th Street	- Reconstruct wheel chair ramps to ADA standards	EA	1	\$5,000	\$5,000
	- Install pedestrian actuation equipment	LS	1	\$8,000	\$8,000
	- Install equipment to modify signal to be semi-actuated	EA	2	\$80	\$160
	- Construct new Metro buss turn out lanes (2)	LF	400	\$300	\$120,000
		Location Sub Total:			\$133,160
5.4.11 - Military Road/27th Street	- Reconstruct wheel chair ramps to ADA standards	EA	4	\$3	\$12
		Location Sub Total:			\$12
5.4.12 - Military Road/Oregon Avenue/Glover Drive	- Construct Multi-use trail from Oregon Avenue to 16th Street	LF	5200	\$200	\$1,040,000
		Location Sub Total:			\$1,040,000
5.4.13 - Military Road/16th Street	- None				\$0
		Location Sub Total:			\$0
5.4.14 - Missouri Avenue/14th Street	- Included in 5.3.2 above				\$0
		Location Sub Total:			\$0
5.4.15 - Missouri Avenue/13th Street	- Included in 5.3.2 above				\$0
		Location Sub Total:			\$0
5.4.16 - Missouri Avenue/Colorado Avenue	- Construct raised median through Colorado Avenue	SF	400	\$25	\$10,000
	- Remove Existing signal system	LS	1	\$20,000	\$20,000
		Location Sub Total:			\$30,000
5.4.17 - Missouri Avenue/Georgia Avenue	- Refer to improvements in 5.3.2 above				\$0
	- Construct pedestrian plaza	SF	560	\$50.00	\$28,000
		Location Sub Total:			\$28,000

MILITARY ROAD / MISSOURI AVENUE TRANSPORTATION STUDY

PRELIMINARY PLANNING COST ESTIMATES

LONG TERM IMPROVEMENTS

Location	Description	Unit	Quantity	Unit Price (A)	Total
5.4.18 - Missouri Avenue/9th Street	- None				\$0
Location Sub Total:					\$0
5.4.19 - Missouri Avenue/8th Street	- Install pedestrian actuation equipment	LS	1	\$8,000	\$8,000
	- Install equipment to modify signal to be semi-actuated	EA	2	\$12,500	\$25,000
Location Sub Total:					\$33,000
5.4.20 - Missouri Avenue/5th Street	- Install pedestrian actuation equipment	LS	1	\$8,000	\$8,000
	- Install equipment to modify signal to be semi-actuated	EA	2	\$12,500	\$25,000
Location Sub Total:					\$33,000
5.4.21 - Missouri Avenue/3rd Street	- None				\$0
Location Sub Total:					\$0
5.4.22 - Missouri Avenue/Kansas Avenue	- None				\$0
Location Sub Total:					\$0
5.4.23 - Missouri Avenue/2nd Street	- Improvements being designed and installed by another program				\$0
Location Sub Total:					\$0
5.4.24 - Missouri Avenue/New Hampshire Avenue	- Stripe a new southbound lane shift / taper	LF	150	\$0.70	\$105
	- Reconstruct wheel chair ramps to ADA standards	EA	2	\$5,000	\$10,000
Location Sub Total:					\$10,105
5.4.25 - Missouri Avenue/North Capitol Street	- Reconstruct wheel chair ramp to ADA standards	EA	1	\$5,000	\$5,000
	- Repave roadway segment	SY	3000	\$20	\$60,000
Location Sub Total:					\$65,000
5.4.26 - Missouri Avenue/Riggs Road/Blair Road	- Reconstruct wheel chair ramp to ADA standards	EA	1	\$5,000	\$5,000
	- Repave roadway segment	SY	2000	\$20	\$40,000
Location Sub Total:					\$45,000

Notes:

A) Unit prices developed based on information provided by the District of Columbia Department of Public Works and other recent metro-area construction pricing sources

Sketch-plan estimates. Actual improvement cost estimates to be calculated upon design completion of each improvement. All costs exclusive of Right-of-Way acquisition costs